

19970603.qrp qrp-por0.745
>From owner-qrp-l@Lehigh.EDU Mon Jun 2 18:03:49 1997
>Return-Path: <owner-qrp-l@Lehigh.EDU>
>Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
> by uro.theporch.com (8.8.6.Beta4/A-UX3.1.1) with ESMTP id SAA00216
> for <shimshon@uro.theporch.com>; Mon, 2 Jun 1997 18:03:47 -0500 (CDT)
>Received: from fidoii.CC.lehigh.EDU (fidoii.CC.lehigh.EDU [128.180.1.4])
> by sco.theporch.com (8.8.6.Beta4/SCO-5.0.2) with ESMTP id SAA02545
> for <shimshon@theporch.com>; Mon, 2 Jun 1997 18:03:39 -0500 (CDT)
>Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.Lehigh.EDU with SMTP id
<34851-17272>; Mon, 2 Jun 1997 19:03:22 -0400
>Date: Mon, 2 Jun 1997 19:03:08 EDT
>Sender: owner-qrp-l@Lehigh.EDU
>Precedence: bulk
>From: qrp-l@Lehigh.EDU
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: QRP-L digest 745
>Mime-Version: 1.0
>Content-Type: text/plain; charset=us-ascii
>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
>Message-Id: <97Jun2.190322edt.34851-17272+135@fidoii.cc.Lehigh.EDU>
>Status: 0

QRP-L Digest 745

Topics covered in this issue include:

- 1) [20636] FDIM Questionnaire Analysis (long)
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- 2) [20637] Trade QRP Gear
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by RobCap@aol.com
- 4) [20639] WTB 2m FM Rig
by Mill.Moore@VALLEY.NET (Mill Moore)
- 5) [20640] Re: QRP
by "Jim Kortge, K8IQY" <jokortge@mci2000.com>
- 6) [20641] WTB HW-8
by Jrperego@aol.com
- 7) [20642] Norcal meeting... overwhelming!
by WD6BOR@aol.com
- 8) [20643] Island Memory kit
by mykey@aztec.asu.edu (MICHAEL C. TODD)
- 9) [20644] QSL QTH needed
by "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
- 10) [20645] 10M amazes me; need suggestions on learning to use a keyer...
by Stephan Greene <sgreene@washesq.com>
- 11) [20646] PHOENIX CRYSTALS NEW E-MAIL ADDRESS

- by n0acs@juno.com (John R. Morris)
- 12) [20647] Antennas and stuff
by Bob Hightower <ki7mn@dancris.com>
 - 13) [20648] Re: GQRP - DC Receiver hum
by "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>
 - 14) [20649] Re: CW Bandwidth
by Raventhorne <jelder@ix.netcom.com>
 - 15) [20650] Handouts
by adams@chuck.dallas.sgi.com (Chuck Adams)
 - 16) [20651] Re: CW Bandwidth
by Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
 - 17) [20652] Quality rigs=QRP Kits
by "Jeff M. Gold" <JMG@tntech.edu>
 - 18) [20653] Re: 30m -- good stuff
by Ed Pacyna <pacyna@auratek.com>
 - 19) [20654] 10 meter beacons heard!
by Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
 - 20) [20655] FS: OHR100
by Ed Pacyna <pacyna@auratek.com>
 - 21) [20656] 1st 12m QSO's
by "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
 - 22) [20657] FS: (2) Alinco DJ-S41 432MHz FM HT's - NIB (New-in-Box)
by Jim Dolson <dolsonj@ix.netcom.com>
 - 23) [20658] Re: CW Bandwidth
by "Dana H. Myers" <myers@bigboy.West.Sun.COM>
 - 24) [20659] Re: NE602's - Disappearing?
by "Ed Hare, W1RFI" <ehare@arrl.org>
 - 25) [20660] CRT Monitor Needs a Good Home
by Larry East <w1hue@amsat.org>
 - 26) [20661] Re: CW Bandwidth
by "Dana H. Myers" <myers@bigboy.West.Sun.COM>
 - 27) [20662] Flamethrower Antenna
by Bob Hightower <ki7mn@dancris.com>
 - 28) [20663] Re: CW Bandwidth
by Vic Rosenthal <rakefet@rakefet.com>
 - 29) [20664] VHF with NE602As?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
 - 30) [20665] Re: CW Bandwidth
by "Marshall Emm" <mgemm@mtechnologies.com>
 - 31) [20666] Simple Tuning Indicator
by kd4kzq@juno.com (Jim A Norsworthy)
 - 32) [20667] Re: CW Bandwidth
by "Dana H. Myers" <myers@bigboy.West.Sun.COM>
 - 33) [20668] High Performance Mixer
by Ed Pacyna <pacyna@auratek.com>
 - 34) [20669] cw bandwidth and receiver filters?
by Jim W7LS <w7ls@brigadoon.com>
 - 35) [20670] QRP-L...Model 100 CW program wanted

- by Stan Skelton <sskelton@cln.etc.bc.ca>
- 36) [20671] Re: cw bandwidth and receiver filters?
by Ed Loranger <we6w@qsl.net>
- 37) [20672] Coax: Foam vs others?
by dearly@cocc.edu (Daniel K. Early)
- 38) [20673] Re: cw bandwidth and receiver filters?
by Dale Anderson <dalea@artemis.fc.hp.com>
- 39) [20674] Logging for FD
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
- 40) [20675] Re: Coax: Foam vs others?
by "Dana H. Myers" <myers@bigboy.West.Sun.COM>
- 41) [20676] Re: Logging for FD
by Bob Hightower <ki7mn@dancris.com>
- 42) [20677] FS: HW-8, HW-9
by "Dana H. Myers" <myers@bigboy.West.Sun.COM>
- 43) [20678] FS: ARK 20, 2/440 mobile, FT-736 satellite rig w/220, HTs, scanner
by Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
- 44) [20679] RE: FDIM 97 Profit and Loss Statement
by "Bob Follett" <bfollett@ditell.com>
- 45) [20680] FS: Kenwood R-820 Rcvr
by "Paul R. Valko" <prvalko@Oakland.edu>
- 46) [20681] Re: 30m -- good stuff and introduction
by Greg Emerson <gregemmy@lni.net>
- 47) [20682] Re: cw bandwidth and receiver filters?
by Joe Gervais <vole@primenet.com>
- 48) [20683] Re: cw bandwidth and receiver filters?
by Ed Loranger <we6w@qsl.net>
- 49) [20684] Re: 30m -- good stuff and introduction
by Joe Gervais <vole@primenet.com>
- 50) [20685] Bandwidth and Filters
by Ed Pacyna <pacyna@auratek.com>
- 51) [20686] Re: Coax: Foam vs others?
by randy_ott@juno.com (Charles R Ott)
- 52) [20687] Hunting Wiley Foxii
by Joe Gervais <vole@primenet.com>
- 53) [20688] Re: Hunting Wiley Foxii
by Ed Loranger <we6w@qsl.net>
- 54) [20689] Re: Hunting Wiley Foxii
by Joe Gervais <vole@primenet.com>
- 55) [20690] Re: Hunting Wiley Foxii
by Chris Cartwright <ccart@dns.vidtel.com>
- 56) [20691] Re: Jan 1, 2000: Ham Radio replaces phone company?
by W3GX@aol.com
- 57) [20692] LDG in Sierra case?
by "Heron, George" <G.Heron@dialogic.com>
- 58) [20693] Re: Hunting Wiley Foxii
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 59) [20694] GX2FA (G0BPS on the air)

by Dick Pascoe <Dick@kanga.demon.co.uk>
60) [20695] Re: Bandwidth and Filters
by Vic Rosenthal <rakefet@rakefet.com>

Date: Sun, 01 Jun 1997 18:13:57 -0500
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Cc: w6toy@erols.com, PDouglas12@aol.com, bfollett@ditell.com, wa8mcq@abs.net, n8cqa@tir.com, "Bob Gobrick"; ARCI Board -- Danny Gingell <k3tks@abs.net>, Hank Kohl <k8dd@contesting.com>, Cameron Bailey <kt3a@juno.com>, Buck Switzer <n8cqa@tir.com>, Bob Gobrick - work <rgob@tco.infonet.com>,
Subject: [20636] FDIM Questionnaire Analysis (long)
Message-ID: <3.0.32.19970601181046.0072408c@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

QRP-L Gang and FDIM Attendees,

As promised, the FDIM gang (Bruce W6TOY, Bob AB7ST, Preston WJ2V and Bob N0EB) is posting the following summary from the Questionnaire handed out to the 130+ attendees of the FDIM QRP Symposium. As Bob Follett AB7ST said "send compliments to the FDIM team but send "complaints" to Bob (actually I added the last part - hi)

We solicited feedback from the attendees in order to make the "show" for next year even better. This is our second year presenting the QRP Symposium and Proceedings and it getting better every year. As I mentioned in a previous post we are attracting some of the most talented QRPers in our hobby to write technical papers and make presentations. As all attendees can attest - the speakers we had last year and this year were just great. We hope to continue that tradition next year.

Next year we are going to be working on some new ideas for the QRP Symposium. I'd like to see some papers that would allow for a 2 hour tutorial on a subject like receiver design etc. In general, most of the talks will be less than an hour with a Q&A session included. Let us know what you think of the 2 hour tutorial idea.

Also the QRP Symposium team of FDIM will be looking at spinning off the Vendors evening which was started by Bruce Preston of the FDIM team. QRP ARCI, the FDIM sponsor, will be reviewing that program for next year.

Finally, Bob Follett AB7ST (by the way Bob is our Executive Administrator - we thought that was a good title) will be shortly submitting to the attendees and QRP-L a financial statement for the QRP Symposium. The word

is we have kept our heads above water once again (albeit with some last minute printing increases).

Thanks All and we will be soliciting your comments for next year's QRP Symposium.

73/72 Bob N0EB - FDIM Publicity Chairperson

=20

Four Days In May QRP Symposium =96 Questionnaire Summary

INTRODUCTION:

The feed back questionnaire asked eight questions, with some=20 sub-questions with replies in narrative=20 format. 100 forms were handed out, and 55 were returned. =20 Thus, this analysis only represents a sampling=20 of attendees and only those who chose to respond. =20 Given the narrative nature, I have attempted to translate=20 remarks into a quantitative form, where possible. =20 I have also added a summery of MY qualitative=20 conclusions in an attempt to capture the 'Flavor" of=20 the overall responses.

QUESTION 1: "How was the second Annual FDIM Symposium?"

No response: 6 Good: 16 Very Good: 19 Super: 14

QUESTION 2: "Were the QRP topics of interest to you? Suggestions for next year? More technical/Less Technical? Antennas? Rigs? Operating?" (Broken= into sub-questions):

Were the QRP topics of interest to you? Single Yes: 11 No: 0

Technical level of presentations: Right Mix: 18 Less Technical: 4 =
More
Technical: 14

Like more emphasis on: Antennas: 19 Rigs: 19 Operating: 16 =20

Specific comments or suggestions for next year:
=20

"Less computer stuff", "More design and construction", "Skip the computer stuff", "more technical would be better", "troubleshooting", 'talk by=20 experienced backpack qrp'er" , (3responses) "More Rev. Dobbs",=20 "More equipment design", "more technical, rigs", "Using tuners,

Baluns/broadband xformers, Understanding transistor specs.", "More=20
technical, antennas, rigs", "Some CW games, i.e., CW=20
bingo/crossword, or CW speed in multi-choice format =96 with=20
prizes at banquet", "filter design a bit deep=20
for me", "more rigs", "more operating and antenna related",=20
"samples of homebuilt (not kit) rigs", "Talk on=20
operating in foreign countries, how to HB keys, operating tips", foxhunting
techniques", "More practical =96 less math", "AV presentation on identifying=
=20
non-ham sounds in the HF spectrum", "more antennas and=20
operating",=20

AB7ST Comments: This question drew the most diverse set of responses, as=
one
would expect. While most felt the technical and non-technical mix for the=
=20
group was about right, there is a significant minority=20
who would prefer ALL technical=97but not necessarily "More Technical" in=
terms
of difficulty. Several felt any computer related topics were not=
appropriate.

QUESTION 3: "Use of Audio/Visual aides=85"

Poor: 5 OK: 41 Great: 1

Suggestions/comments: "better miking - with cord that reaches the overhead
projector", "Brighter overhead projector", "Phone line for Internet demo"=20
"better boom-box".

QUESTION 4: "Were the talks long enough?"

Too Long: 4 OK: 48 Too Short: 1

AB7ST Comments: Almost unanimous that the overall talk length was correct.
However, several people suggested that some talks should be longer, and=20
some shorter =96 don't be arbitrary. In particular, several=20
would like Rev. Dobbs to talk longer.=20

QUESTION 5: "Enough time for Breaks, Lunch, How was Lunch?"

Single Yes response: 21 Breaks: 30 Lunch: 30 Lunch quality: Poor:=
2=20
OK: 15 Good: 17

AB7ST Comments: Almost unanimous that break length was correct. A few=
people
felt we should bring in our own food. However, it should be noted that our=

=20

contract with the hotel precludes us from bringing food into a meeting room.=

=20

QUESTION 6: "How was the printed Proceedings? Want one next year?"

Single Yes response: 21 Printed Proceedings: 27 Want one next year: 27

Comments: Several: "We need page numbers", "print quality was lacking on several pages"

AB7ST comments: No one stated they didn't want the proceedings.

QUESTION 7: "Is a QRP book as part of your registration fee of value to you? Would you prefer to see a lower registration fee w/o a book?"

Single Yes response: 15 Single No response: 11 Book of value?: 10 =
Lower
fee w/o book - Yes: 1 No: 14

Comments: "As long as there is a NEW book available"

AB7ST comments: While the book giveaway is in favor, there is a significant minority that don't want it included. My suggestion: Do it in the future=
=20

only if there is a new publication available that would attract=20
wide interest =96 otherwise, forget it.

QUESTION 8: (Paraphrasing) "Talks were to be non-commercial in nature =96
Continue this way? Or would you prefer presentations where brand names=20
and competitor names are referenced?"

Leave as/is: 14 Don't Care: 5 References OK, but not crass commercial
presentations: 22 Commercial presentations: 10

AB7ST Comments: There were several narrative replies, but rather than=
quote,

I will paraphrase: a significant minority would like it as-is. A small=20
majority would like either commercial references or full-
blown commercial presentations. I would estimate the bulk of the=
respondents

would be most satisfied by changing the speaker rules to allow commercial=20
comparisons or references, but forbid crass commercial pitches.

Scoring, interpretations and translations of responses solely the
responsibility of Bob Follett =96 AB7ST=20
FDIM Administration Chair

=20

73, Bob=20

PS: Profit & Loss statement next week

Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett@ditell.com=20

| PLEASE NOTE NEW EMAIL ADDRESSES - PLEASE REPLY TO BOTH ADDRESSES |

| Bob Gobrick - N0EB & V01DRB (ex WA6ERB, VE2DRB) Stillwater, MN |

| Internet: rgob@tco.infonet.com |

| AND Internet: rgobrick@worldnet.att.com |

Date: Sun, 01 Jun 97 19:33:23 -0800

From: tim_hynde@idecc.com

To: <qrp-l@Lehigh.EDU>

Subject: [20637] Trade QRP Gear

Message-ID: <9706018652.AA865209518@idec_mail.idecc.com>

Mime-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

I have a NorCal 40a from Wilderness and a 38 Special which was
installed in a Bandid Box with power, key, phone jacks all
professionally lettered.

Im looking for a 6m FM rig please.

Tim, ka8ddz

tim_hynde@idecc.com

Date: Sun, 1 Jun 1997 20:03:20 -0400 (EDT)
From: RobCap@aol.com
To: qrp-l@Lehigh.EDU
Subject: [20638] Photos of Unbuilt HW-8 on the Web
Message-ID: <970601200317_-1832787246@emout03.mail.aol.com>

For those who have an interest, I have put up some photos of my unbuilt HW-8 on the Web. It's on my Heathkit Page web site. The site also has a lot of resources for kit builders, including "Ten Tips for the First Time Builder", and an article with photos on a trail friendly light for your QRP rig: "The Itty Bitty Station Light".

Address of the site is: "<http://members.aol.com/w3dx/index.html>".

73,

Rob, W3DX
(formerly WA3ULH)

Date: 01 Jun 97 20:17:27 EDT
From: Mill.Moore@VALLEY.NET (Mill Moore)
To: QRP-L@Lehigh.EDU
Subject: [20639] WTB 2m FM Rig
Message-ID: <3757835@hanover.VALLEY.NET>

My ancient 2m FM rig finally died a few days ago, so I'm looking around for a replacement. If anyone has a basic 2m FM rig for sale, please e-mail me privately.

Mill, AA1PB
Hartland, Vermont

Date: Sun, 01 Jun 1997 20:26:47 -0400
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
To: David Vrona <dave@wwa.com>
Cc: qrp-l@Lehigh.EDU
Subject: [20640] Re: QRP
Message-ID: <3.0.1.16.19970601202647.28ff1abe@mail-cluster.pcy.mci.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii

At 06:13 PM 6/1/97 -0500, David Vrona N9QNZ wrote:

>Hi Jim,
>
>Would you be so kind as to help out a newbie? You're doing exactly what I
>got into ham radio for: communicating around the globe on a few watts!!!
>
>Can you tell me more? What radio, band, antenna? Is that CW?
>
>Thanks for any help/tips.
>
>dave
>

Hi Dave....sure, I can supply some of the details. I am using
a NorCal 38 Special. It was modified according to the
article that I wrote for QRPp, and also posted to this group.

With those modifications, it is running 3 watts output, has a
2 pole crystal filter, and slightly different audio characteristics.

If you are not familiar with the 38 Special, it operates on 30 meters,
CW mode only. I built mine with a TiCK keyer, so it is pretty
much standalone. Mine covers from 10.1 MHz to 10.123 MHz.

I put it on the air for the first time about mid February.
At the time, I decided to start a new log book, just for
this rig, to see how well I could do with its simple design.
The results speak for themselves.

I normally operate a bit after work for an hour or so until
my XYL gets home. I may also operated an hour or two in the
evening, if nothing is queued up on the social calendar.

My antenna for 30 meters is a 170 foot long wire, that I
end feed in the shack, via a tuner. The wire is nominally
30 feet high, and runs in a north - south direction. As
with all long wire antennas, this one has four lobes that
are off the axis of the wire's direction. In this case, the
four lobes seem to be strongest in the NE, SE, SW, and NW
directions, which explains being able to work Europe easily,
as well as the New England states. I also have worked a ton
of stations in and around Florida. Texas and the southwest also
are prevalent, in the SW direction. Since mid February, I've
made over 200 contacts with this setup, with somewhere around
60 of them being DX contacts. I don't chase DX, but sure
like to work it when the opportunity presents itself.

That's the rundown, any more questions, feel free to pass
them on. I hope you don't mind me posting the answer to
the QRP-L group. Maybe others will be interested.

72.....Jim

Jim Kortge, K8IQY (ex NU8N) | NorCal, QRP-L
jokortge@mci2000.com | _o H.F. bicycle mobile
Fenton, MI | _\<, Mizuho 17/40 SSB
... .. (*)/(*)
NorCal 38S Log - 34 States; 40 Countries - Running 3 watts
Most recent - Iowa Mauritius

Date: Sun, 1 Jun 1997 20:54:43 -0400 (EDT)
From: Jrperego@aol.com
To: qrp-1@Lehigh.EDU
Subject: [20641] WTB HW-8
Message-ID: <970601205442_-1932204376@emout04.mail.aol.com>

Hi gang,

I am looking for a HW-8 to add to my collection. Please reply via my e-mail.

Tnx,
John/KB8UMD

Date: Sun, 1 Jun 1997 21:29:54 -0400 (EDT)
From: WD6BOR@aol.com
To: qrp-1@Lehigh.EDU, ki6ds@telis.org
Subject: [20642] Norcal meeting... overwhelming!
Message-ID: <970601212953_-663465746@emout04.mail.aol.com>

Well, I just got back home from the Norcal meeting at California Burger in Livermore and I'm completely zapped out!

As soon as I walked in that wicked rascal Doug Hendricks zeroed in on me and handed me the TiCK memory keyer and Rainbow Tuner kits from the Dayton building contest. You all must know Doug pretty well by now. He doesn't grin that way unless he's done something particularly clever and evil.

He brought back the surface mount version of the TiCK memory keyer. My hands

shake (too much coffee and not enough sleep), my vision's gone (at least I think that was Doug. He looked awfully fuzzy close up), and I do all my soldering with one of those WWII vintage 400 watt soldering irons they used to use for sheet metal work. Oh, what a wicked sense of humor that guy has! I had vowed NEVER to even consider SMD construction, and now my hand has been forced. I've already turned the soldering iron on, after replacing all the fuses from the last time I used it, and will begin looking around the house for an enclosure small enough for this wonderfully tiny little project.

Jim Cates and his son Steven carried my 38 Special and Rainbow tuner back to Dayton, so I suppose they are partially to blame. They couldn't tell at the meeting, but my silly grin was probably nervousness at the thought of building the TiCK, although it could have been my delight at having won. Life will never be so good again!

I had thought about trading the Rainbow Tuner for another 38 Special (I have six or seven or eight Rainbows built or under construction) but as I rode home from the meeting I began thinking about what a special honor it was to win this particular one, so I'll build it and put it into the beautiful new Altoids tin Doug brought all the way back from Dayton and gave to me at the meeting and then display it in a special place of honor in my home. I am truly touched (watch it with those smart comments).

So thank you Doug, thank you Jim, thank you Steven, thank you Chuck, thank you Ori, thank you Wayne, thank you Jerry, thank you guys at Embedded Research and NJQRP Club, thank you... Norcal and everyone else in the QRP community. I am not only having the best time of my life but am enjoying the efforts and company of the best group of people I've ever met. (Nils, if this sounds a little sappy you can always start a thread concerning sappy badgers and whatever else we have under the porch).

72,
Darrel, WD6BOR

Date: Sun, 01 Jun 1997 19:51:07 -0700 (MST)
From: mykey@aztec.asu.edu (MICHAEL C. TODD)
To: qrp-1@Lehigh.EDU
Subject: [20643] Island Memory kit
Message-ID: <9706020251.AA14459@aztec.asu.edu>
Content-transfer-encoding: 7BIT

I just finished "The Island Memory" kit. I am very pleased with the quality of components and its operation with my NW40 and Tick-1

keyer. It went together easily except for the LEDs shown on the schematic. Either they are reversed or my LED leads are backwards. I may add another to a different rig so obviously I'm happy with it.

W9UQB Mike AZ scQRPion

--

[B[C

Date: 01 Jun 97 22:50:01 EDT
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>
Subject: [20644] QSL QTH needed
Message-ID: <970602025001_70511.3041_IHD56-3@CompuServe.COM>

Gang:

Just broke a huge pile and worked RA0BK. He gave me a 339 whilst he was about 549/559 QSB. Got his name as Peter but due to a combination of QSB/QRM and his 35+ wpm never could get all of his QTH.

This was on 20 metres using the HW-9 at 4 watts out to the TNT/2 Windom *AND* the new counterpoise system so many of you assisted me with. Have been working DX right and left since I got it installed (4-wire telephone wire cut to 1/4 wavelengths for 40+30+20+15...*AND* a short run of #8 wire to cold water pipes in a nearby WC). It works FB!

Anyway, can anyone able to say RA0BK's QTH? Thanks for any assistance.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 mn-qrp 19 nj-qrp 69 ak/qrp 139
ARCI ??? ARRL WAS 49/38 DXCC 41/38

Sierra Argosy 525 Argo 515 QRP++ QRP+ HW-9 Explorer II-30
Norcal 40a SW-30 49er 38S Schurr Paddles TNT/2 Windom SLV/W6MMA

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Sun, 1 Jun 1997 23:06:33 -0400 (EDT)
From: Stephan Greene <sgreene@washsq.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20645] 10M amazes me; need suggestions on learning to use a keyer...
Message-ID: <Pine.LNX.3.95.970601225211.22960B-1000000@ftp.washsq.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've done a little (hah!) station upgrading, so I can finally conveniently operate a few bands I'd like to try - 30M for instance.

I've run QRP off and on and enjoy it, but it still continues to amaze me. Tonite, for example, I just worked a UT5 station in Kiev. He was buried under the hellacious RTTY QRM (is 30M always this nuts?) but he stuck with me long enough to get the essentials. Serge gave me a 569, must have been his antenna (a big Rhombic, I think).

The QSO brought out another need, though. The new rig (FT900, but it works great at lowered to 5W, too!) has a built in keyer, and I finally finished a Super CMOS II keyer (which even worked the 1st time). So for essentially the first time since I was licensed in '71, I HAVE TO LEARN HOW TO PROPERLY USE A PADDLE KEY (e.g. I have 26 years of bad straight-key habits to unlearn). At least I have decent hardware (Bencher paddle and the built-in keyers in the FT900 and Super CMOS II).

Because of the number of good (and great) CW ops on this list, I thought I'd ask here. Besides practice, practice, and more practice, any suggestions on developing proficiency with my new CW toys? For example, is the thumb supposed to handle the dits or the dahs? (Don't laugh - I'm also left handed, but anyone's keyer I've borrowed during a Field Day operation was set up by a pesky right hander. Over the years, I have a number of "skills" I perform right-handed because that's how I learned or the equipment (scissors, sailplanes) only came that way.

I know the "feel" of a paddle is a very personal matter, but any suggestions on how paddle should feel for sending CW well? The Bencher is as it came out of the box.

Thanks for any suggestions, hope to run into some of you on 30M or somewhere.

72 & 73 Steve KA1LM
QRP-L #232

Stephan A. Greene sgreene@washesq.com
PGP Public Key 0xB96717F5 1996/10/01 at <http://www.washesq.com/~sgreene/>

Date: Sun, 01 Jun 1997 23:10:02 EDT
From: n0acs@juno.com (John R. Morris)
To: qrp-1@Lehigh.EDU
Subject: [20646] PHOENIX CRYSTALS NEW E-MAIL ADDRESS
Message-ID: <19970601.210043.8135.0.N0ACS@juno.com>

Hi Gang,
Commencing tomorrow, Monday June 2nd, my new e-mail address will be:
phxtal@nava.link.net
PLEASE MAKE A NOTE OF IT FOR YOUR FUTURE USE.

72
John at
PHOENIX CRYSTALS
1714 NORTH ASH STREET
NEVADA, MO 64772

Phone: (417) 667-6179

Date: Sun, 1 Jun 1997 20:40:42 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-1@Lehigh.EDU
Subject: [20647] Antennas and stuff
Message-ID: <199706020340.UAA26318@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Whilest in the woods this weekend to allow my xyl (Bertie N7XJW) to get on
40 CW, I had a chance to do some comparison between the G5RV, Flamethrower
and SLV antennas.

Not a whole lot of difference, really. The SLV was obviously the easiest to
put up, and used 4 radials on each band a la the RS 5-conductor ribbon cable
method. Very broad banded, and hears quite well. I'm in the process of
developing some sort of reel to store the radials on, as they are a bit
bulky. If it works, I'll post it for those that use this system.

The G5RV at 40' did as well as expected, as this is the old stand-by. Somewhat directional, though. The flamethrower cut for 40M was very good, but directional too. Of course the dipoles could hear a bit better, but not much, judging by ear. Had them connected to an antenna switch, so could switch quickly from one to the other (all three).

The wife did get her contacts, the first ever. She ended up with 5 total, not too bad considering she was doing a lot of shaking. And is she hooked! Might have to extend the shack some, now. I temporarily lost my Kent paddles when she tried them out. Looks like she will be making at least one 'major' purchase at the Tuthill hamfest.

Glad to see that Mac, KR0I, is going to be on the N/T portion of 40 on Tuesday night for FSTFM. She wants to crank up the rig for that one. Might be nice if others could set aside a few minutes to do the same. We seem to have neglected the N/T segment of this list on FSTFM.

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=18 30=18 17=0 12=0 States=15/0/0 DX=0/0/0 QSL's=5

Date: Mon, 2 Jun 1997 04:55:26 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>
To: parkerp@pcug.org.au
Cc: qrp-l@Lehigh.EDU
Subject: [20648] Re: GQRP - DC Receiver hum
Message-ID: <199706020358.XAA18787@mail.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Peter - The hum can often be the result of a bit of feedback from the VFO (local oscillator) of your DC rx getting into the antenna input.

Be sure you have the VFO well shielded and a lot of DC RX problems will go away. Put it in a box made of copperclad PC board material.

Another way is to run the VFO at 1/2 the frequency and run it through a doubler circuit.

Good luck!

73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://qrp.cc.nd.edu/kanga/>
419-423-4604

Date: Mon, 2 Jun 1997 01:14:40 -0500 (CDT)
From: Raventhorne <jelder@ix.netcom.com>
To: mgemm@mtechnologies.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20649] Re: CW Bandwidth
Message-ID: <2.2.16.19970601230351.35afefe8@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:07 PM 6/1/1997 +0000, Marshall Emm wrote:

>When I started to "learn radio" almost 30 years ago, CW was
>defined as a "continuous wave" having a single frequency,
>turned on and off to provide telegraphic content.
>
>The CW signal, like an AM carrier, was specifically described as a
>"point frequency" having ZERO (or "infinitely narrow") bandwidth.

You have just described a contradiction. If the CW signal were =NEVER= keyed, it would have an infinitely narrow bandwidth. By keying it, however, you are modulating it, and thus producing sidebands. If you send a string of dits, it is the same as modulating the carrier with a square wave. Remember the spectrum of the square wave? An infinitely decaying series of harmonics of the fundamental frequency! With infinitely sharp keying of a "CW" signal, you will actually consume =INFINITE= bandwidth! The faster you key the CW signal, the further out each sideband will be. A 5 wpm signal is about 25 characters x 3 bauds (I'm guessing at these figures, so if you know the actual numbers, fill them in yourself) / 60 seconds, or 1.25 Hz. The first sideband due to keying will be at 1.25 Hz, the third at 3.75, the fifth at 6.25, etc. At 10 wpm, these figures are doubled.

>B) surely, given the above, to presume a constant rate of
>bandwidth creep as a factor of speed in wpm must be pretty arbitrary.

It does depend on making some assumptions about how long a dit lasts and how long a dah lasts. Since communication involves more than just a string of dits, and the keying waveform is usually shaped, it can only be approximated, but it's not particularly arbitrary.

I'm sure I left a bunch of stuff out, a real signal processing whiz could explain this in better detail.

72,

John

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ So many fools, so few comets . . .

Date: Mon, 2 Jun 1997 06:09:07 -0500
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-1@Lehigh.EDU
Subject: [20650] Handouts
Message-ID: <199706021109.GAA18220@chuck.dallas.sgi.com>

Gang,

A commercial vendor sent me email asking if I would be able to have table space for some handouts. YES. If anyone has some handouts that they want made available HamCom, just send them to Chuck Adams, Box 181150, Dallas, TX 75218-8150 and make sure they get here by Friday, I'll be glad to set them out during HamCom.

This is just one other way for the QRP community to distribute information to the ham community at large and let them know what is going on. This is the information age and it doesn't all have to be electronic and web page based. :-)

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com

<http://reality.sgi.com/adams/>

WIMPS: Qs=032 30m=21 17m=5 12m=0 States=19/05/00 DX=03/00/00 QSLs=012

Date: Mon, 2 Jun 1997 05:54:19 -0400
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
To: Raventhorne <jelder@ix.netcom.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20651] Re: CW Bandwidth
Message-ID: <Pine.3.89.9706020516.D11247-01000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The bandwidth of a periodic signal can be defined.

The bandwidth of a single pulse can be defined as well.

Because OOK Morse, as used for language, is a fairly random process, it would be possible to characterize it mathematically, and to perform a Fourier transform on it in order to bring it into the frequency domain. Note that the result would ALSO be a random process. There IS no set "bandwidth" - it's dependent on the speed of the code, AND it is itself a random process.

It would also be possible to merely look at a Morse signal on a spectrum analyzer - probably somewhat easier - less modeling, less math :)

Note: I guess I <<DID>> learn something in my

- 1) probability and stochastic processes
- 2) digital signal processing
- 3) information theory
- 4) communications systems design
- 5) error-correcting codes

classes! And I actually REMEMBER IT!!! WOW!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** Gimme a hamfest, I'm there *

Date: Mon, 02 Jun 1997 08:11:40 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
To: qrp-l@Lehigh.EDU

Subject: [20652] Quality rigs=QRP Kits
Message-ID: <01IJL8VZ65308WW9N4@tntech.edu>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

All,

got to thinking things over. In the past 5 years or so, I have probably built the VAST majority of QRP kits available. Things sure have improved.. it truly amazes me. I have had many people ask about suggestions for building. Not too long ago many hams considered building transmitters and then seperate receivers. Usually crystal controlled. Good way to learn how things work, but when you are done and have to deal with very limited frequency, hard TX/REC changover and maybe not the greatest receiver, sure can see how QRP got a name for being "QSO challenged" in other words, you can build them but you may not really get to talk to too many people.

I have just finished the Green Mountain 30 meter kit. I put it in a steel computer A/B switch box.. about perfect size (only broke one or two drill bits getting it ready). I spent most of the weekend testing this little rig out. I think it is FANTASTIC!!!!!!! Mine only puts out about 2 watts backed slightly off full power to get max. efficiency (according to directions). this weekend was very strange for 30 meters in my neck of the woods. Conditions changed by the minute.

From the first hook up and finding someone calling CQ, worked about anyone I could find, and have a good size list from around the US. Heard some DX late at night.. but didn't have the patience. I was using my GAP vertical with the LDG tuner to get it to work on 30 and a small gel cell at just about 13 volts. I used my very first straight key.

The receiver on this rig is GREAT. I checked it against my Kenwood 930 a number of times. If the signal is out there, I do believe the GM30 will hear it. The other part I like is that the receiver seems very selective. I can very easily tune EXACTLY to the CW signal and then it disappears quickly on either side. The sidetone is very pleasant and so is the sound of the rig. QSK works very well and I checked the output signal on my scope and it looked very clean. The performance of this receiver reminds me of the Norcal 40A.

I got nothing but outstanding reports and had a blast. The thing about it is there are so many of these top quality kits out there for very reasonable prices. I have currently started on an Emtech

40.. and have the first 4? stages done and tested (this is the emtech approach.. I like it). I have an Oak Hills 100 on 20 waiting.

What I am trying to say is that I find it truly amazing that small companies are producing such great products at reasonable prices. Gets you thinking about what you are paying for from the major companies (advertising, executive salaries?)

72

Jeff, AC4HF

Date: Mon, 02 Jun 1997 09:34:46 -0400
From: Ed Pacyna <pacyna@auratek.com>
To: JakeCart@ix.netcom.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [20653] Re: 30m -- good stuff
Message-ID: <3.0.16.19970602093445.2f3f1e70@galaxy.auratek.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:31 AM 5/31/97 -0400, JakeCart wrote:

>There must be some good things happening on 30 meters. Last night (5/30) I
>worked er1oo, hb9kp/qrp, sa8vk, 9a2aj, ve9np, w5blr/qrp (nc38sp). Where is
>Moldova??

Over the weekend, worked 34 countries on 30M with 5W scratch homebrew 38S and 102' inverted V.

Ed W1AAZ

Date: Mon, 02 Jun 1997 09:38:54 -0400
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [20654] 10 meter beacons heard!
Message-ID: <v03102803afb86d04a4c2@[132.235.72.186]>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7BIT

Gang,

Ten is starting to come to life! I am at EM89WH Southeastern Ohio, Athens. Rig: Ten Tec scout with TA 33 tribander up 45 feet.

Here are some CW beacons that I copied over the weekend:

May 31	Call	Location	Freq	Sig
0147	KG9DX	OK STATE	28.221.2	599 10 WATTS
0149	VK3SIX	QF02WH	28.252.3	579
0150	K5AB EM10		28.279.4	579
0151	N6EU EM26		28.215.5	599 1 WATT Catoosa, OK
1541	KD4EC		28.232	599 Jupiter, FL
1543	VE1CBZ	FN65	28.234.4	539 Fredricton, NB
1544	VE9BEA	FN66	28.244.6	559 Crabbe Mountain, NB
1550	VE9MS	FN65	28.299.0	559
1724	KC4DP	?	28.209.7	229 P.O. Box 5391 ?
1725	KJ4X EM 84		28.205.2	579
1726	KQ4TG		28.230.3	579 110 Orleans St. Leland, FL 28451
1727	LU1FHH	?	28.264.0	239 ?

As you can see, there is quite a variety of stations on the beacon freq of 28.2 to 28.3 mhz. Most of these stations were qrp, running anywhere from 1 to 10 watts. Lotsa fun and made quite a few contacts on 10 CW and SSB. Seems like someone is always on 28.350 mhz SSB. I'm beginning to like 10 meters!

vy 73 de

```
*****
*
* NN    N  SSSSSSS 8888888 0000000 Greg Weinfurtner AEE BSS *
* N N   N  S      8      8  0      0 Electronic Design Splst *
* N N   N  SSSSSSS 8888888 0      0 Ohio University Athens *
* N    N N      S  8      8  0      0 GO BOBCATS!             *
```

```

* N      NN  SSSSSSS 8888888 0000000                                *
*                                                                 *
* "Can thou send forth lightnings that they may go and say      *
*      unto thee, 'Here we are'?" Job 38:35                      *
*                                                                 *
*      weinfurtner@ouvaxa.cats.ohiou.edu                          *
*      http://ouvaxa.cats.ohiou.edu/~weinfurtner                 *
*****

```

```

-----

Date: Mon, 02 Jun 1997 10:43:46 -0400
From: Ed Pacyna <pacyna@auratek.com>
To: qrp-1@Lehigh.EDU
Subject: [20655] FS: OHR100
Message-ID: <3.0.16.19970602104344.2e8f2b82@galaxy.auratek.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

```

OHR 100, 30M version, mint condition.....\$110 or BO

```

-----

Date: Mon, 02 Jun 97 07:54:28 CDT
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
To: qrp-1@Lehigh.EDU
Subject: [20656] 1st 12m QSO's
Message-ID: <9705028652.AA865269841@smtpgw.ccgate.dl.nec.com>

```

Gang:

Check out the high bands. All were open yesterday here in TX most of the day. Worked my first ever 12m contacts, even to P.R. (KP3W).

10m was in great shape. Beacons were booming in. Does this mean we're on the way toward better times?

73 de Dave NR3E/5
 nr Dallas, TX
 qrp-1 #25, ARRL
 WIMPS: Qs=045 30m=032 17m=08 12m=05 States=024/05/04

DX=02/00/01

Date: Mon, 02 Jun 1997 10:49:00 -0400
From: Jim Dolson <dolsonj@ix.netcom.com>
To: qrp-1@Lehigh.EDU
Subject: [20657] FS: (2) Alinco DJ-S41 432MHz FM HT's - NIB (New-in-Box)
Message-ID: <3392DD5C.7215@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

[I know, I know, not exactly QRP related but I trust the folks on this list more than the swap list. I'd like it sell it here if I can.]

These are the brand new pocket size hand-helds. They measure 4" x 2" x 1"; the antenna flips down against the HT when not in use; covers 425 - 450 MHz; CTCSS tones; 10 or 20 memories (can't remember which); powered by 3 AA batteries; 400mw (see, it *is* QRP). Slick little radio. I bought three at Dayton, thinking that two friends back home would each want one - they didn't.

Cost is \$100 each plus \$5 for ground (5 day) shipping.

Jim
wb8zbd
dolsonj@ix.netcom.com
616-787-8592 days

Date: Mon, 2 Jun 1997 07:52:28 -0700 (PDT)
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
To: ham@w3eax.umd.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20658] Re: CW Bandwidth
Message-ID: <Roam.SIMC.2.0.6.865263148.29383.myers@bigboy>
Content-Type: text

Scott NF3I wrote:

> The bandwidth of a periodic signal can be defined.
>
> The bandwidth of a single pulse can be defined as well.

>
> Because OOK Morse, as used for language, is a fairly random process, it
> would be possible to characterize it mathematically, and to perform a
> Fourier transform on it in order to bring it into the frequency domain.
> Note that the result would ALSO be a random process. There IS no set
> "bandwidth" - it's dependent on the speed of the code, AND it is itself a
> random process.
>
> It would also be possible to merely look at a Morse signal on a spectrum
> analyzer - probably somewhat easier - less modeling, less math :)

I don't think it is as hard as you make it sound, Scott. The necessary bandwidth of a CW signal is determined by the sending speed and keying shape. The highest bandwidth CW signal is a series of dits; if you take just one dit from this series, you can determine the bandwidth using a Fourier transform, or you can be more intuitive and get a good estimate. Humans need a fairly hard edge, i.e., harder keying, especially as the signal gets weaker. Harder keying means the CW envelope contains a greater amount of harmonics to create the edge. So, you should be able to estimate the CW bandwidth as a function of the dit rate (baud rate) and keying shape. The ARRL material does just this - and the net result is the formula:

$$Bw = WPM * 4$$

for most radios. If your keying is a little harder, you'll need even more bandwidth.

Dana K6JQ
Dana@Source.Net

Date: 2 Jun 1997 15:02:52 GMT
From: "Ed Hare, W1RFI" <ehare@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [20659] Re: NE602\'s - Disappearing?
Message-ID: <5munas\$gnq@mgate.arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This info just hit my mailer this morning. Y'all might find it useful:

Forward:

From: Wissell, Dan

To: 'jadepro@intarachnid.com'
Cc: Wissell, Dan; 'ppagel@arrl.com'
Subject: NE/SA602A
Date: Friday, May 30, 1997 1:22PM

Hi Dennis and Paul,

I finally got the story on NE602A production. Phillips is dropping the commercial range (0-70C) NE602A and replacing it with the extended temperature range part SA602A. This is because 99% of the volume production is in the SA602 part. Phillips has no plans to stop production of the part and the key spec parameters are the same. So, I guess we spec both the NE602A or the SA602A for the receiver.

73,
Dan

--

73 from ARRL HQ,
Ed Hare, W1RFI
ARRL Laboratory Supervisor

Date: Mon, 02 Jun 1997 09:09:53 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@Lehigh.EDU
Subject: [20660] CRT Monitor Needs a Good Home
Message-ID: <2.2.16.19970602150953.285f36ce@eloi>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have a never-used-in-the-original-box 12in. B&W (green phosphor) monitor that was originally purchased 10 years or so ago (for about \$95!) for use with an Apple II clone. If you can make use of it, it's yours for the price of UPS shipping (probably around \$15 in the lower 48).

Date: Mon, 2 Jun 1997 08:20:25 -0700 (PDT)
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
To: mgemm@mtechnologies.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20661] Re: CW Bandwidth
Message-ID: <Roam.SIMC.2.0.6.865264825.20524.myers@bigboy>
Content-Type: text

Marshall wrote:

> I get annoyed with published articles in which the author is either
> sloppy or ignorant about matters relating to CW operation-- e.g
> confusing the mode with the code, or calling an A1A signal
> "interrupted continuous wave"-- but I have my own areas of ignorance
> and hope someone on the list can clear something up for me.

Well, be a little careful in understanding what the writer intends.
In non-amateur circles (i.e., professional RF designers) the term
'CW' means a continuous-wave carrier with no modulation. In amateur
circles, CW has come to mean a continuous wave carrier modulated with
Morse code.

If you look in a HP databook, they talk about 'CW output'. They
mean a dead carrier.

Continuous Wave is referring to a radio signal that doesn't periodically
decay. At one time, radio signals were generated by exciting a resonant
circuit. The resulting wave was a damped oscillation - damped wave.

So, it isn't necessarily ignorance when someone describes CW in a
way that you don't.

> When I started to "learn radio" almost 30 years ago, CW was
> defined as a "continuous wave" having a single frequency,
> turned on and off to provide telegraphic content.
>
> The CW signal, like an AM carrier, was specifically described as a
> "point frequency" having ZERO (or "infinitely narrow") bandwidth.

Well, that's interesting. That sure sounds like what I just said ;-).
The continuous wave carrier is switched on and off to provide content.
The carrier by itself has very little bandwidth (this gets into the
phase noise issue) but the process of switching the carrier on and
off introduces bandwidth. The rate with which the carrier is switched
determines the bandwidth.

> When I was studying for my US license I had to learn that a CW signal
> has a bandwidth in Hz equal to 5 times the keying rate in words
> per minute. There's at least one exam question on that.
>
> A quick check of the ARRL Handbook indicates that a CW signal will

> always have key-clicks and/or (?) switching transients, and therefore
> will occupy bandwidth. But...

Even without key clicks, the process of modulating the CW carrier with Morse code will occupy bandwidth. The softest possible switching waveform is a 'raised cosine' shape, and this results in a signal that occupies about the same bandwidth as the baud rate (which happens to be the rate with which dits are sent). Baud rate is related to the WPM speed using:

$$\text{Baud} = \text{WPM} / 1.2$$

Well, raised cosine keying is far too soft for most humans to copy by ear, so harder keying is used. The ARRL material observes that most modern transmitters have keying that gives a bandwidth of about $\text{WPM} \times 4$, not far from the $\text{WPM} \times 5$ figure you learned a long time ago.

Dana K6JQ
Dana@Source.Net

Date: Mon, 2 Jun 1997 09:11:30 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-1@Lehigh.EDU
Subject: [20662] Flamethrower Antenna
Message-ID: <199706021611.JAA09465@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

About two years ago, on this list, someone posted details on how to build the 'BIC Flamethrower' antenna. I built a couple, and they work well.

I referred to this antenna in a recent posting, and have gotten some questions on it. So, in an attempt to avoid sending out lots of individual messages, I have posted the information on my web page, with some drawings.

If you don't have web access, let me know, and I'll try to send the file to you. Hopefully the words will be enough to get you through the construction process without the drawings.

73,
Bob KI7MN (ki7mn@dancris.com) Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260
NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL
<http://www.dancris.com/~ki7mn>
WIMPS: QS0's=18 30=18 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=5

Date: Mon, 02 Jun 1997 09:25:29 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: jelder@ix.netcom.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20663] Re: CW Bandwidth
Message-ID: <3392F3F9.42FB@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Raventhorne wrote:

> With infinitely sharp keying of a "CW" signal,
> you will actually consume =INFINITE= bandwidth! The faster you key the CW
> signal, the further out each sideband will be.

You're correct, but I'd put it this way: the faster you key the CW signal, the 'sharper' the keying has to be in order to be intelligible. And, the sharper the keying is (i.e., the shorter the rise and fall times of the dot and dash pulses) then the wider the sidebands will be.

Intuitively, if you have very soft keying, the dots and dashes will tend to run together at high speeds.

Vic K2VCO

Date: Mon, 02 Jun 1997 13:02:22 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [20664] VHF with NE602As?
Message-ID: <339253de.pandora@pandora.lugs.org.sg>

Hi,

I've been wondering how hard it would be to build a fixed frequency (read x'tal) controlled VHF/UHF receiver based on the NE602? Would this be much harder than with HF? I see that the NE602 is specified up to 500 MHz while the internal VCO is rated up to 200 MHz. Has anyone tried such a thing? Thanks.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      | danwee@singnet.com.sg      |
| QRP-L #667 | 9V1ZV@amsat.org                    |
+-----+-----+
```

Date: Mon, 2 Jun 1997 10:27:42 +0000
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: myers@bigboy.West.Sun.COM
Cc: qrp-l@Lehigh.EDU
Subject: [20665] Re: CW Bandwidth
Message-ID: <199706021628.KAA19354@lynx.csn.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hi, Dana--

>>So, it isn't necessarily ignorance when someone describes
CW in a way that you don't.
<<

Well, I thought I was being pretty specific with the examples of
mode/code confusion and incorrect usage of the term "Interrupted
Continuous Wave." And I did give myself an out in saying ignorance
OR sloppiness [g].

Just read in the intro to Halprin's book (by George Hart, W1NJM,
retired Communications Manager for ARRL) that "the code we use on the
amateur radio bands is usually called just CW by active amateurs, or
sometimes just Morse. We'll just call it CW." So maybe most of
these guys do know better and what I am critical of in these cases is
sloppiness, not ignorance.

My main "concern" regarding the bandwidth was that the standard
formula seems more arbitrary than most in emission specifications (I
certainly won't quibble over whether the multiplier is 4 or 5 [g]).

I've got some more responses to go over, but so far I still don't
understand how the bandwidth can be affected by the keying rate.
Surely the clicks and transients must be identical (resulting in
specific if not literally measurable bandwidth) regardless of the
rate?

73

Marshall Emm
AA0XI/VK5FN
aa0xi@mtechnologies.com
<http://www.mtechnologies.com/mthome>

Date: Mon, 02 Jun 1997 12:37:37 EDT
From: kd4kzq@juno.com (Jim A Norsworthy)
To: qrp-l@Lehigh.EDU
Subject: [20666] Simple Tuning Indicator
Message-ID: <19970602.113142.7015.1.kd4kzq@juno.com>

Hi Gang,

A 'BIG' thanks to all that gave me input on this when I asked a while back. After looking at all the designs I went with the single LED indicator. I chose this for several reasons. I'm not a great builder and one doesn't have to be to ugly this one inside the MFJ-901B case. It is a lot less involved than the other designs. It uses no external power. I know that one LED doesn't tell you alot about the condition of the match but as a friend of mine(an extra) said, " You mean that's all there is to it and it's that simple." I have checked it a little against a SWR meter and it indicates the lowest I can get the match down to on a very consistant basis.

As you can tell I'm very happy with it. The 901B is the same size as the QRP+ but only about half as thick. These two units almost look as if they were meant to go together, the colors and finishes are amazingly alike.

Some here on the group were wanting to know the outcome of what I was going to use. I couldn't remember everyone so I thought I'd put it on the list so anyone interested could get an update. SRI about the BW if you weren't interested, I think it's SK time now.

TNX,
72/73 es CUL de Jim KD4KZQ
kd4kzq@juno.com
QRP-L#1060 10-10#66171
"Less is really MORE" think about it

Date: Mon, 2 Jun 1997 10:02:45 -0700 (PDT)
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
To: mgemm@mtechnologies.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20667] Re: CW Bandwidth
Message-ID: <Roam.SIMC.2.0.6.865270965.13751.myers@bigboy>
Content-Type: text

Marshall wrote:

> My main "concern" regarding the bandwidth was that the standard
> formula seems more arbitrary than most in emission specifications (I
> certainly won't quibble over whether the multiplier is 4 or 5 [g]).

The bandwidth formula by itself isn't arbitrary. CW is like any other full-carrier double-sideband AM modulation - the required bandwidth is twice the highest modulating frequency. The highest modulating frequency is some harmonic of the dit rate. If your transmitter has very soft keying, this harmonic won't be very great. If your transmitter has harder keying, the harmonic will be greater. If your transmitter has very harsh keying, the harmonics generated when the key is closed and opened will be very great and appear as clicks up and down the band.

> I've got some more responses to go over, but so far I still don't
> understand how the bandwidth can be affected by the keying rate.
> Surely the clicks and transients must be identical (resulting in
> specific if not literally measurable bandwidth) regardless of the
> rate?

Well, that is a good point. Many transmitters (if not most) shape the keying using a rise time and fall time independent of the keying speed. Indeed, the Fourier transform of this wave-shape is fixed, meaning that the transmitted signal will have relatively constant sidebands. However, I believe it is true that the receiving end could use a tighter filter at lower speeds without compromising the signal...

Dana K6JQ
Dana@Source.Net

Date: Mon, 02 Jun 1997 13:24:40 -0400
From: Ed Pacyna <pacyna@auratek.com>
To: qrp-1@Lehigh.EDU

Subject: [20668] High Performance Mixer
Message-ID: <3.0.16.19970602132439.2b7f071c@galaxy.auratek.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Analog Devices has a high performance active mixer worth considering (AD831).

Features include:

500MHz bandwidth
+10dBm 1dB compression point
Low distortion (+24dBm 3rd order intercept)
Low LO drive requirement (-10dBm)
High port isolation (LO-RF 70dB @ 100MHz)
Ports can be AC or DC coupled
On board low noise post mixer output amplifier (use optional)

73

Ed, W1AAZ

Date: Mon, 2 Jun 1997 10:37:21 -0700 (PDT)
From: Jim W7LS <w7ls@brigadoon.com>
To: qrp-l@Lehigh.EDU
Subject: [20669] cw bandwidth and receiver filters?
Message-ID: <199706021737.KAA01573@siskiyou.brigadoon.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi, gang. I've read the musings and it would seem that for 20 wpm cw, most of the information could be recovered with a 100 Hz bandwidth, which is much narrower than most filters go. Is this because most tight filters have that nagging tendency to ring? I have a QRP+ that can go to 100 Hz and it doesn't ring noticeably. It uses a superscaf filter.

There's a limit to what you can do for S+N/N with tight bandwidth and maybe it just doesn't pay to go much tighter than 500 Hz. Comments?

73 de Jim W7LS

Date: Mon, 2 Jun 1997 10:43:17 -0700 (PDT)
From: Stan Skelton <sskelton@c1n.etc.bc.ca>
To: qrp maillist <qrp-l@Lehigh.EDU>
Subject: [20670] QRP-L...Model 100 CW program wanted
Message-ID: <Pine.SUN.3.95.970602103821.26243A-100000@c1n>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi all..I'm going on extended leave this summer and would like to find a basic CW practise program (in basic) that would run on my "qrp" model 100 (radio shack) computer..

tnx Stan

Stan, QRP-L #34, OHR Sprite 80, 38 Spec.

```
  \  \ / | _ _ | | _ _ / / _ _ | | | / | _ _ |
   \  / | _ _ | | / / \ _ \ | | \ | | _ _ |
    \ / | _ _ | | / / \ _ \ | | \ | | _ _ |
```

Date: Mon, 02 Jun 1997 10:57:43 -0700
From: Ed Loranger <we6w@qsl.net>
To: w7ls@brigadoon.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20671] Re: cw bandwidth and receiver filters?
Message-ID: <33930997.3FD5@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Whereas tight filters can assist immensely with reception, actual two-way communications introduces additional considerations:

- 1) Possible drift of BOTH rigs.
- 2) Possible retuning by either party to optimize a reception feature of the particular rig/filter system.
- 3) QRM requiring some detuning for avoidance.
- 4) The fact that your SUPER-Sniffing front end so exceeds your copiability on the other end as to have you spend more time chasing stations than working them.

Typically I find that the guy with the DSP and other supreme filter techniques is usually running 10 dB QRO over my power as a minimum.

Bottom Line: If you have to pull out all the stops to work a QSO, chances are they must also have taken extremes to work you. Until EVERYONE has all the bells and whistles, I'll try to improve overall system performance here by optimizing Antennas and minimizing noise.

I certainly don't want to receive SUBSTANTIALLY better than my sig is going out. Unless I'm just listening....

Of course, all of this technology is exciting and definately contributes to the QRP paradigm!

-Ed Loranger

Jim W7LS wrote:

>

> Hi, gang. I've read the musings and it would seem that for 20 wpm cw, most
> of the information could be recovered with a 100 Hz bandwidth, which is much
> narrower than most filters go. Is this because most tight filters have that
> nagging tendency to ring? I have a QRP+ that can go to 100 Hz and it doesn't
> ring noticeably. It uses a superscaf filter.

> There's a limit to what you can do for S+N/N with tight bandwidth
> and maybe it just doesn't pay to go much tighter than 500 Hz. Comments?

>

> 73 de Jim W7LS

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#???/ARCI#????

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Mon, 2 Jun 1997 09:56:11 -0800

From: dearly@cocc.edu (Daniel K. Early)

To: qrp-l@Lehigh.EDU

Subject: [20672] Coax: Foam vs others?

Message-ID: <v01540b01afb8b9778f75@[206.163.24.56]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

What are the advantages/disadvantages of foam versus other types of coax?

Date: Mon, 2 Jun 97 12:03:02 MDT
From: Dale Anderson <dalea@artemis.fc.hp.com>
To: qrp-l@Lehigh.EDU
Subject: [20673] Re: cw bandwidth and receiver filters?
Message-ID: <9706021803.AA23537@artemis.fc.hp.com>

> There's a limit to what you can do for S+N/N with tight bandwidth
>and maybe it just doesn't pay to go much tighter than 500 Hz. Comments?

Hmmmm, well I've got a 250Hz IF filter in my FT-990 and it does NOT ring. Certainly not any more than the 500Hz one. After that is the Dual SCAF filter which I have set to about 50Hz wide. Again, no ringing as long as I minimize the background noise with the notch and noise canceller. I will just hear clean CW even tho' the BW is wider than the 50Hz I'm listening to. There may be a CW speed above which this will no longer be true as the BW expands, but up to the 28wpm I can copy, it works fine.

72/73,
-Dale, KB0VCC
Fort Collins, CO
QRP-L #91 / CQC #251 / ARS #234 / FISTS #3172

Date: Mon, 2 Jun 1997 10:44:00 -0500
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: kd7s@psnw.com (Receipt Notification Requested)
Cc: qrp-l@Lehigh.EDU
Subject: [20674] Logging for FD
Message-ID: <M1520667.019.5u5vi.1.970602180351Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Bill:

The best logging accessory I have found is a second operator as skilled as the person on the key. Quite often I find the logger can copy as well or better than the operator, and pipe up, "Got him already".

Been working for me for years.
And no batteries required.
72, Bob N6WG

Date: Mon, 2 Jun 1997 11:07:16 -0700 (PDT)
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
To: dearly@cocc.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20675] Re: Coax: Foam vs others?
Message-ID: <Roam.SIMC.2.0.6.865274836.12571.myers@bigboy>
Content-Type: text

Dan Early wrote:

> What are the advantages/disadvantages of foam versus other types of coax?

Foam dielectric replaces some of the plastic with air - thus increasing the velocity factor and reducing loss somewhat.

Mechanically, foam may not be as rugged as solid PE.

Dana K6JQ
Dana@Source.Net

Date: Mon, 2 Jun 1997 11:19:24 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: Bob_Tellefsen-CNSE97@email.mot.com
Cc: qrp-l@Lehigh.EDU
Subject: [20676] Re: Logging for FD
Message-ID: <199706021819.LAA20075@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:44 AM 6/2/97 -0500, you wrote:

>Bill:

>The best logging accessory I have found is a second operator as skilled as the
>person on the key. Quite often I find the logger can copy as well or better
>than the operator, and pipe up, "Got him already".

>Been working for me for years.

>And no batteries required.

>

True, but you do have to feed 'em and water 'em every now and then :^).

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=18 30=18 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=5

Date: Mon, 2 Jun 1997 11:25:39 -0700 (PDT)

From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>

To: qrp-1@Lehigh.EDU

Subject: [20677] FS: HW-8, HW-9

Message-ID: <Roam.SIMC.2.0.6.865275939.25369.myers@bigboy>

Content-Type: text

Hello gang,

My buddy Ivan (N6PQB) reminded me he's still got a couple of radios for sale of interest to QRP folks...

He's got:

HW-8 w/matching power supply, in good-excellent condition, asking \$150 or offer.

HW-9 w/matching SWR/power meter, good-excellent condition, asking \$325 or offer.

In both cases, shipping is extra. Please feel free to negotiate price with Ivan.

He does not currently have e-mail; he may be reached by telephone at (805) 946-8847, evenings of Monday, Wednesday and Friday, as well as all weekend.

Dana K6JQ

Dana@Source.Net

Date: Mon, 2 Jun 1997 13:23:10 -0400

From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>

To: VHF Mailing list <vhf@w6yx.stanford.edu>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [20678] FS: ARK 20, 2/440 mobile, FT-736 satellite rig w/220, HTs, scanner
Message-ID: <Pine.3.89.9706021342.S11528-0100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For sale - immediately

Ark 20 20m QRP rig in excellent condition. Synthesized, built like a brick (but with aluminum). Keyer, CW filter, pushbutton tuning. 5 watts output. With FREE Ramsey 20w linear amp. All manuals. \$270.

Kenwood TM-732A 2m/440 mobile rig in excellent condition with DTMF mic, packet cable, and manual. No mounting bracket. \$325.

Yaesu FT-736R with 2m, 220, and 432 coverage. 25 watts output on all bands. SSB/CW/FM/AM. Comes with CW filter, CW keyer, MD-1B8 desk mic, all manuals. Excellent condition, \$1700 takes all.

Standard C188A compact 2m handheld, NEW in box. New. Never charged or used. Comes with antenna, hand strap, belt clip, 6v 700 mAh NiCd, charger with stand, manual, and cover for keypad (protection). Sold for \$279 most places. Covered by Standard under warranty for another 11-1/2 months. \$210.

Scanner - Bearcat SC-150y (yellow). Excellent condition, with charger, NiCd battery pack, rubber duckie antenna, and photocopy of manual. Covers normal bands, FM, including 800 MHz but NOT incl. Cellular frequencies. \$130.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** Hamfest, life's simple joy *

Date: Mon, 2 Jun 1997 13:41:58 -0600
From: "Bob Follett" <bfollett@ditell.com>
To: "QRP-L Group" <qrp-l@Lehigh.EDU>
Subject: [20679] RE: FDIM 97 Profit and Loss Statement
Message-ID: <199706021940.NAA11482@mars.ditell.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Gang:

The following is a summary of FDIM 97 Income and Expense:

INCOME:

Income from Individuals: Attendees/non-attendees:	\$4,015
Income from NorCal - Maimisburg room	\$75
Net Income from 96-97 Proceedings	\$75.77

EXPENSE:

Refunds to individuals cancelling or Guest Spk'rs:	\$250
Jade Book	\$533
Proceedings expense inc. binders	\$1,062.18
Coffee	\$75
124 Lunches	\$806
83 Soft Drinks	\$70
Ballroom & Miamisburg room rentals	\$175
Tax and 17% service fee on the above 4 items	\$421
Misc Expenses:	\$165.17
NET PROFIT AND CARRY OVER TO FDIM 1998	\$608.42

Unaudited and subject to last minute corrections :-)

73, Bob Follett, FDIM Administrative Chair

Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett@ditell.com

Date: Mon, 2 Jun 1997 16:04:26 -0400 (EDT)
From: "Paul R. Valko" <prvalko@Oakland.edu>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [20680] FS: Kenwood R-820 Rcvr

Message-ID: <Pine.OSF.3.95.970602160244.20322D-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

HI!

You may DELETE THIS NON-QRP MESSAGE NOW, IF NOT INTERESTED...

I would generally avoid posting a message like this but I've got to get this out of the garage, it belonged to WD8QVD (SK) and I've had it for over a year.

This is the matching semi-general coverage receiver to the famed Kenwood TS-820S, it gave the owner full separate TX/RX in the tradition of Drake and Collins gear.

The R-820 SEEMS (i.e. No promises, I used it for a couple hours) to work fine except that the PTO acts goofy about 300KHz up from the lower band edges - and this IMPROVES if you use the radio so it may just be dirty or something. I do not have the time or patience to make it work since it's simply an estate item. I DO know that the radio has the full set of crystal filters and the "bandscope" option to enable the Kenwood scope to act as a band spectrum analyzer.

Oh, I don't know if these things came with a built-in speaker, if so, this one was removed. I have the owners AND service manual. First QRP-L'er to offer \$175 gets it. I'll pay shipping, too.

73 =paul= W8KC
(248) 370-1072 days (72!, Cool eh?)

Date: Mon, 02 Jun 1997 15:59:59 +0000
From: Greg Emerson <gregemmy@lni.net>
To: qrp-l@Lehigh.EDU
Subject: [20681] Re: 30m -- good stuff and introduction
Message-ID: <3392EDFF.3BAB@lni.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>>At 07:31 AM 5/31/97 -0400, JakeCart wrote:

>>There must be some good things happening on 30 meters. Last night (5/30) I
>>worked er1oo, hb9kp/qrp, sa8vk, 9a2aj, ve9np, w5blr/qrp (nc38sp). Where is
>>Moldova??

>Over the weekend, worked 34 countries on 30M with 5W scratch homebrew 38S
>and 102' inverted V.

>Ed W1AAZ

I just got on this list and would like to say "hi" to everyone. I have
been a ham for about 10 years and just getting back into it after
selling off my stuff in 1993 due to financial problems. Well, I'm back
on my feet and looking to get into QRP. I do not have a rig so if anyone
has a good deal on a HW-8 or 9, I would be interested. I love CW and
have never dabbled in QRP but am looking forward to trying it out.

I responded to this post because I used to work 30 meters when it first
became a WARC band (or shortly thereafter) and there wasn't much on it
but a few CW operators here and there. Wow, things have changed! I
can't wait to get on and see what I can do! Hope to be able to
contribute somehow here on the list down the road.

BTW, 35 years old, married with 4 kids, work for Ford Motor Co. and
part-time police officer on the weekends here in southeast Michigan. If
I can be of any assistance, let me know.

Take care!

Greg Emerson WG8N

Date: Mon, 2 Jun 1997 13:20:40 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [20682] Re: cw bandwidth and receiver filters?
Message-ID: <199706022020.NAA17705@usr07.primenet.com>

Ed (WE6W) wrote:

>
> I certainly don't want to receive SUBSTANTIALLY better
> than my sig is going out. Unless I'm just listening....

Sounds like someone hasn't been Fox hunting yet... :-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And now... The exploding Blue Danube."

Date: Mon, 02 Jun 1997 13:28:47 -0700
From: Ed Loranger <we6w@qsl.net>
To: vole@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20683] Re: cw bandwidth and receiver filters?
Message-ID: <33932CFF.712@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joe Gervais wrote:

>
> Ed (WE6W) wrote:
> >
> > I certainly don't want to receive SUBSTANTIALLY better
> > than my sig is going out. Unless I'm just listening....
>
> Sounds like someone hasn't been Fox hunting yet... :-)
>
> Cheers de AB7TT,
>
> -Joe, vole@primenet.com, AZ ScQRPions (Phoenix)
>
> "And now... The exploding Blue Danube."

Now Joe, I knew that line was going to draw attention :^)
But, Fox hunting is not 2-way comm. Hence my disclaimer.
BTW, I spent 4 yrs. in the center-room, working HFDF
for the Military. I know all about the fox. (Cute little guy)
hee. hi.

Anyway, looks like we've started another thread

Very Best es TU fer comments.
-Ed Loranger.

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#??#/ARCI#????
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Mon, 2 Jun 1997 13:42:28 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [20684] Re: 30m -- good stuff and introduction
Message-ID: <199706022042.NAA19083@usr07.primenet.com>

Greg (WG8N) wrote:

>

> I just got on this list and would like to say "hi" to everyone.

Howdy back! And welcome to the best kept secrets in ham radio -
QRP and QRP-L. :-)

> Well, I'm back on my feet and looking to get into QRP. I do not
> have a rig so if anyone has a good deal on a HW-8 or 9, I would
> be interested.

Don't forget to look at some of the new rigs (kits in particular).
You may be amazed at how much performance you can get for not much
\$\$\$\$. Ask around, surf the Web, do some legwork. NorCal/Wilderness
Radio, SWL, OHR, TenTec, and others are putting out some great gear.
Nothing wrong with the HW series, but since \$\$\$ seems to be an issue,
something like a "previously owned" NorCal-40a or similar may be
right up your alley.

Hope to hear you out there!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And now... The exploding Blue Danube."

Date: Mon, 02 Jun 1997 16:48:15 -0400
From: Ed Pacyna <pacyna@auratek.com>
To: qrp-l@Lehigh.EDU
Subject: [20685] Bandwidth and Filters

Message-ID: <3.0.16.19970602164812.2b47401e@galaxy.auratek.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Why is everyone fixated only on filter bandwidth?

The purpose of a filter is to pass only desired frequencies (signals) and eliminate all of the undesired frequencies (signals).

Bandwidth (pass band) deals with the first requirement. Shape factor and stop band attenuation with the second requirement.

73

Ed, W1AAZ

Date: Mon, 2 Jun 1997 15:50:36 -0500
From: randy_ott@juno.com (Charles R Ott)
To: qrp-l@Lehigh.EDU
Subject: [20686] Re: Coax: Foam vs others?
Message-ID: <19970602.155036.4750.0.randy_ott@juno.com>

On Mon, 2 Jun 1997 11:07:16 -0700 (PDT) "Dana H. Myers"
<myers@bigboy.West.Sun.COM> writes:

>Dan Early wrote:

>

>> What are the advantages/disadvantages of foam versus other types of
>coax?

>

>

>Foam dielectric replaces some of the plastic with air - thus
>increasing the
>velocity factor and reducing loss somewhat.

>

>Mechanically, foam may not be as rugged as solid PE.

>

>Dana K6JQ

>Dana@Source.Net

>

>

Also, foam dielectric has a much lower breakdown voltage. Only a problem if you are not QRP!

Charles R. (Randy) Ott
K5HJ - QRP-L #1040

Date: Mon, 2 Jun 1997 13:57:57 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: we6w@qsl.net (Ed Loranger)
Cc: qrp-l@Lehigh.EDU
Subject: [20687] Hunting Wiley Foxii
Message-ID: <199706022057.NAA20214@usr07.primenet.com>
Content-Type: text

Howdy again folks,

Ed (WE6W) wrote:

>
> Now Joe, I knew that line was going to draw attention :^)
> But, Fox hunting is not 2-way comm. Hence my disclaimer.

Ed, have we got some fun for you! Mind you, after last season's QRP-L Fox Hunt, there are still some folks who would agree that it's not 2-way comm. ;-)

> BTW, I spent 4 yrs. in the center-room, working HFDF
> for the Military. I know all about the fox. (Cute little guy)
> hee. hi.

Heck, you'll find our brand of Fox hunting *much* more fun than hunting down Ruskies "fishing trawlers" off the Aleutians. :-) I think the QRP-L webpage still has the rules and background posted. Come September you may well be selling off the TV for a DSP unit.....

Hope to bump into ya out there!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And then you must cut down the mightiest tree in the forest with... A HERRING!"

WIMPS: Qs=003 30m=3 17m=0 12m=0 States=02/00/00 DX=01/00/00

Date: Mon, 02 Jun 1997 14:01:43 -0700
From: Ed Loranger <we6w@qsl.net>
To: Joe Gervais <vole@primenet.com>
Cc: qrp-1@Lehigh.EDU
Subject: [20688] Re: Hunting Wiley Foxii
Message-ID: <339334B7.4EFD@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Exciting -- What's the web page for ScQRPions?

And now I've got a new mail folder -- QRP_df

72 all de Ed L.

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#???/ARCI#????
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Mon, 2 Jun 1997 14:11:48 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: we6w@qsl.net (Ed Loranger)
Cc: qrp-1@Lehigh.EDU
Subject: [20689] Re: Hunting Wiley Foxii
Message-ID: <199706022111.0AA21371@usr07.primenet.com>
Content-Type: text

Howdy Folks,

Yep, me again. You're wishing my Project From Hell(tm)
never ended, huh? :-)

Ed (WE6W) wrote:

>

> Exciting -- What's the web page for ScQRPions?

Bob Hightower's (KI7MN) site <<http://www.dancris.com/~ki7mn/>>

is the closest we ScQRPions have for an "official" web page.
(We're pretty much a social "anti-club" :-). Check it out!
Lots of nifty info, including results from last season's Fox
hunt, FYBO QRP Winter Field Day, QRP clubs/resources, etc.

> And now I've got a new mail folder -- QRP_df

It may become a folder of great joy or tremendous aggravation
by next Fall. :-) See ya!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And then you must cut down the mightiest tree in the
forest with... A HERRING!"

WIMPS: Qs=003 30m=3 17m=0 12m=0 States=02/00/00 DX=01/00/00

Date: Mon, 2 Jun 1997 17:17:21 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [20690] Re: Hunting Wiley Foxii
Message-ID: <Pine.LNX.3.93.970602171558.5520A-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 2 Jun 1997, Ed Loranger wrote:

> And now I've got a new mail folder -- QRP_df

Guess that means "QRP 'da fox" ? Happy hunting...

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV QRP WAS 15/9 (w/c) | ccart@erols.com --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --
-- WIMPS Q's=02 30M=02 17M=00 12M=00 STATES=02/00/00 DX=00/00/00 QSL's=00 --

Date: Mon, 2 Jun 1997 17:34:02 -0400 (EDT)
From: W3GX@aol.com
To: svecbrdk@well.com

Cc: qrp-1@Lehigh.EDU
Subject: [20691] Re: Jan 1, 2000: Ham Radio replaces phone company?
Message-ID: <970602173128_-764048065@emout03.mail.aol.com>

Could happen. Remember, the great Northeast Power Blackout back in the 70's was caused by one single relay failing.

72 de W3GX
John Foote
Ashburn, VA

Date: Mon, 2 Jun 1997 18:10:01 -0400
From: "Heron, George" <G.Heron@dialogic.com>
To: "'QRP-L'" <qrp-1@Lehigh.EDU>
Subject: [20692] LDG in Sierra case?
Message-ID:
<c=US%a=_%p=Dialogic%l=EXCHANGE1NJ-970602221001Z-22340@exchange1nj.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Sorry to bother everybody, but I was wondering who it was at Dayton/FDIM that was showing off his Sierra rig with the LDG auto tuner integrated under the hinged top lid of the case?

It was an outstanding piece of work and would like to help getting it documented and published on a website as a project.

Thanks & 72,

--George N2APB
g.heron@dialogic.com
<http://www.njqrp.org> <-- Home of the NJQRP Club

Date: Mon, 2 Jun 1997 16:30:18 -0500
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: vole@primenet.com
Cc: qrp-1@Lehigh.EDU
Subject: [20693] Re: Hunting Wiley Foxii
Message-ID: <199706022130.QAA20105@chuck.dallas.sgi.com>

Hey Gang,

QRPers spend more time listening than transmitting. Rule #1.
Very few work many of the fox stations. See rule #1.
Go To Rule #1.

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/>
WIMPS: Qs=032 30m=21 17m=5 12m=0 States=19/05/00 DX=03/00/00 QSLs=012

Date: Mon, 2 Jun 1997 22:13:40 +0100
From: Dick Pascoe <Dick@kanga.demon.co.uk>
To: qrp-1@Lehigh.EDU
Subject: [20694] GX2FA (G0BPS on the air)
Message-ID: <UGPnGPAAezkzEwmc@kanga.demon.co.uk>
MIME-Version: 1.0

Hi gang,

I shall be operating from a windmill in the South East
of the UK from 13.30 - 15.30, (maybe longer if the band is open)
Initially 100 watts for a sked to Virginia for a chap who wants
to work the windmill.

After the sked I will drop the power and look for QRPers.

Callsign for the sked will be GX2FA (with Dick G0BPS on the mike)
on about 14.280. After that, my own call/p but at 10 watts (SSB).
If no takers I will drop to 14.060 on CW(ya)

I look forward to meeting a few friends.

TTFN de ..

--

Dick Pascoe G0BPS/G0R00	Kanga Products
Dick@kanga.demon.co.uk	Seaview House,
http://www.kanga.demon.co.uk	Crete Road East.
ARCI DX membership person	Folkestone. Kent. CT18 7EG.UK
Ham Radio Today QRP Columnist	Tel / Fax 44 (0)1303 891106

Date: Mon, 02 Jun 1997 15:56:38 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: pacyna@auratek.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20695] Re: Bandwidth and Filters
Message-ID: <33934FA6.5335@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ed Pacyna wrote:

>
> Why is everyone fixated only on filter bandwidth?
>
> The purpose of a filter is to pass only desired frequencies (signals) and
> eliminate all of the undesired frequencies (signals).
>
> Bandwidth (pass band) deals with the first requirement. Shape factor and
> stop band attenuation with the second requirement.

For what it's worth, in my shack the requirements are:

Primary: increase the signal-to-noise ratio by decreasing the bandwidth.

Secondary: reduce the loudness of the QRM to protect my ears.

To achieve the primary objective, the narrower the better! If the equipment on both ends is stable, bandwidth in the tens of Hz. is desirable. To everyone who says '500 Hz. is good enough', wait until the fox hunting starts!

Vic K2VCO

End of QRP-L Digest 745

